NOTES:

1. FOR REFERENCE DRAWINGS REFER TO BILL(S) OF MATERIAL 01-W3125B01.
2. UNLESS OTHERWISE SPECIFIED:
   ALL RESISTORS ARE IN OHMS, ± 5PCT, 1/4 WATT.
   ALL CAPACITORS ARE IN UF.
   ALL VOLTAGES ARE DC.
3. INTERRUPTED LINES CODED WITH THE SAME LETTER OR LETTER COMBINATIONS ARE ELECTRICALLY CONNECTED.
4. DEVICE TYPE NUMBER IS FOR REFERENCE ONLY. THE NUMBER VARIES WITH THE MANUFACTURER.
5. SPECIAL SYMBOL USAGE:
   * DENOTES - ACTIVE LOW SIGNAL.
6. INTERPRET DIAGRAM IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE SPECIFICATIONS, CURRENT REVISION.
7. PART TYPES ARE ABBREVIATED IN THE FIELD OF THE DRAWING. FOR FULL PART TYPE, REFER TO TABLE 1.
8. ▭ INDICATES EQUIPMENT MARKING.
9. CODE FOR SHEET TO SHEET REFERENCES IS AS FOLLOWS: 6 A6 (SHEET — ZONE)
10. USER'S OPTION-EITHER A MC68705R3 OR A MC68705U3 MAY BE USED.

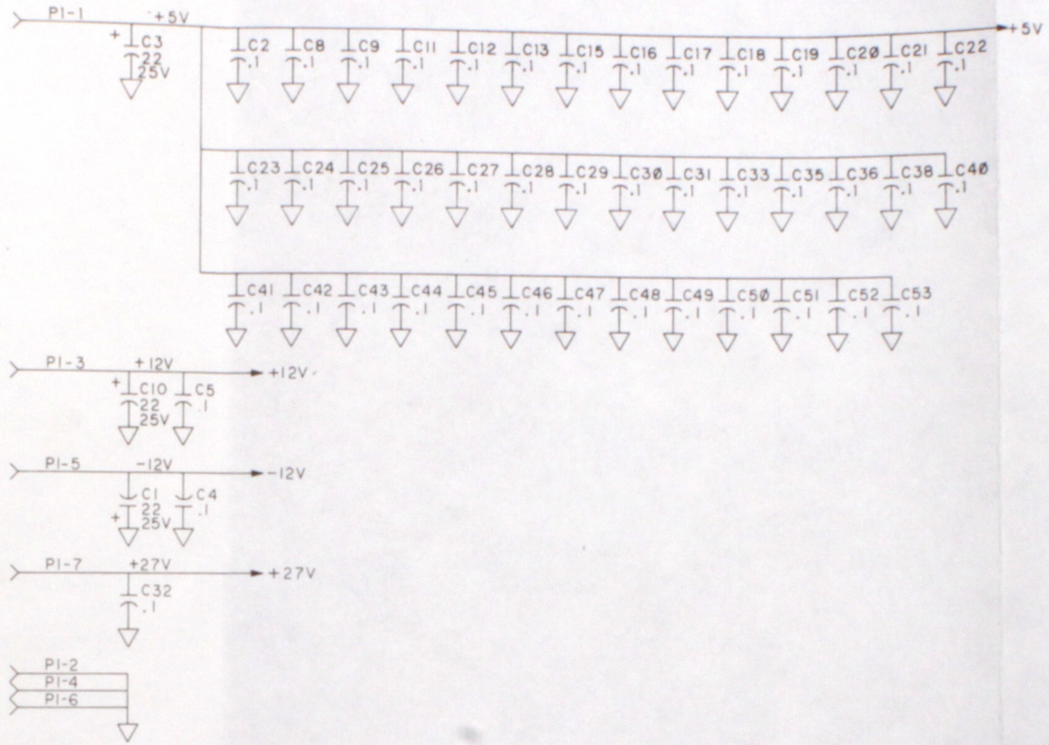


TABLE 1 ⚠7

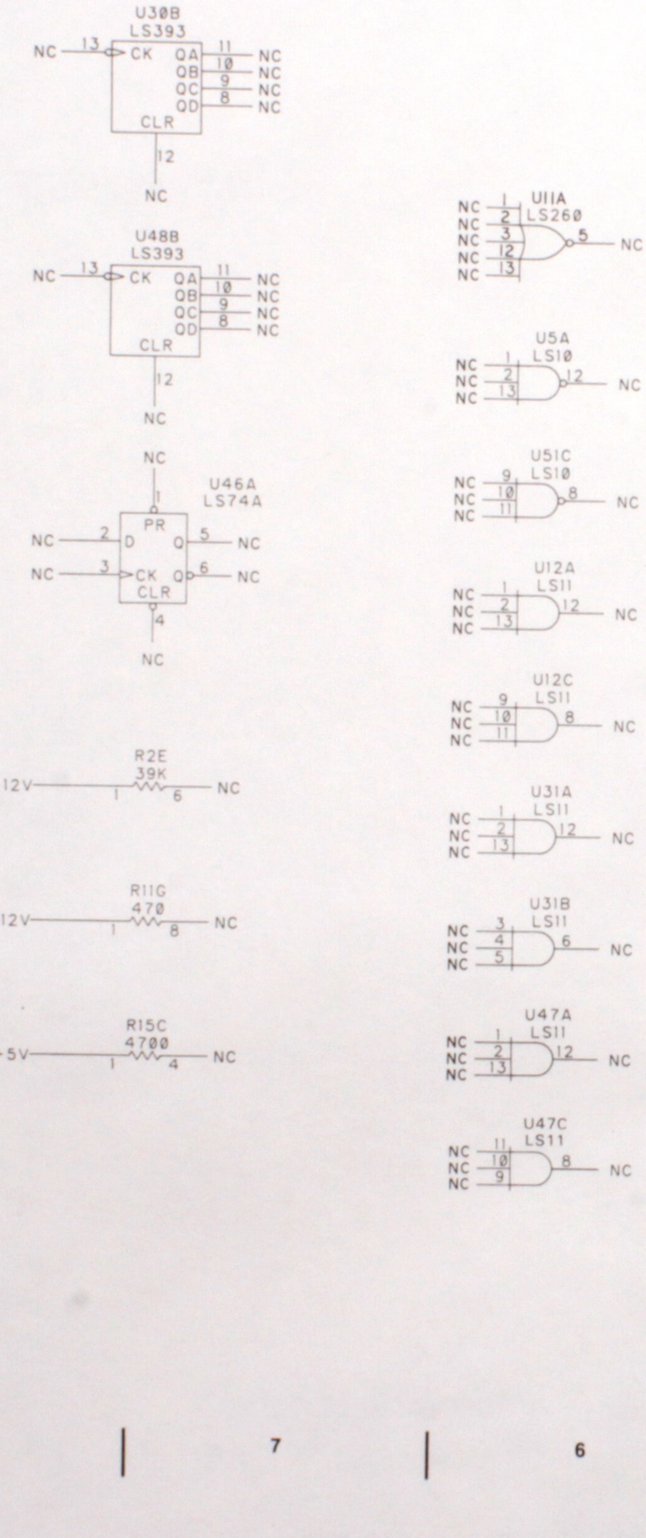
REF DES	TYPE ⚠4	GND	+5V	+5VPR	+12V	-12V
U1	74LS08	7	14			
U2	MC6850	1	12			
U3	MC1489A	7	14			
U4	MC6850	1	12			
U5	74LS10	7	14			
U6	74LS00	7	14			
U7						
U8						
U9						
U10	74LS244	10	20			
U11	74LS260	7	14			
U12	74LS11	7	14			
U13	74LS08	7	14			
U14	MC1488	7			14	1
U15	74LS02	7	14			
U16	74LS04	7	14			
U17	74LS08	7	14			
U18	74LS08	7	14			
U19	74LS374	10	20			
U20	74LS245	10	20			
U21	MC6805R2	1	4			
U22	74LS373	10	20			
U23	82S103	14	28			
U24	MCM68B10	1	24			
U25	MCM 2716	12	24			
U26	MCM 2716	12	24			
U27	TMM2016	12	24			
U28	TMM2016	12	24			
U29	74LS27	7	14			
U30	74LS393	7	14			
U31	74LS11	7	14			
U32	74LS244	10	20			
U33	74LS32	7	14			
U34	74LS32	7	14			

TABLE 1, CONTD ⚠7

REF DES	TYPE ⚠4	GND	+5V	+5VPR	+12V	-12V
U35	74LS02	7	14			
U36	74LS74A	7	14			
U37	SY6522	1	20			
U38	SY6522	1	20			
U39	74LS04	7	14			
U40	74LS32	7	14			
U41	74LS74A	7	14			
U42	74LS04	7	14			
U43	74LS00	7	14			
U44	74LS74A	7	14			
U45	74LS08	7	14			
U46	74LS74A	7	14			
U47	74LS11	7	14			
U48	74LS393	7	14			
U49	MC14024	7	14			
U50	74LS260	7	14			
U51	74LS10	7	14			
U52	74LS74A	7	14			
U53	74LS00	7	14			
U54	74LS04	7	14			
U55	74LS393	7	14			
U56	74LS14	7	14			
XU57	(SOCKET)	1		3		
XU58	(SOCKET)	1		4		

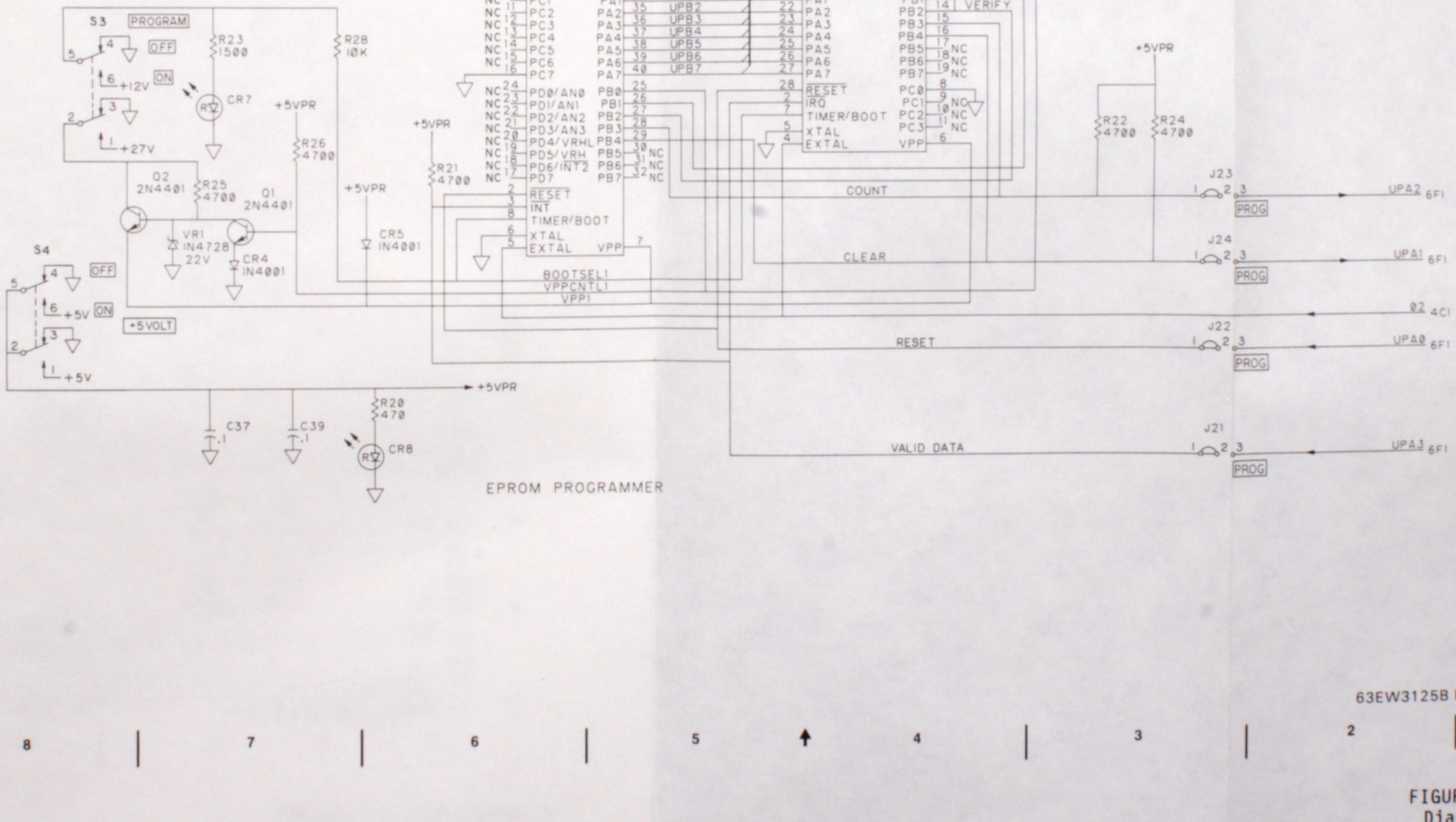
63EW3125B REV E
SH 1 OF 7

FIGURE 5-2. EVM Schematic Diagram (Sheet 1 of 7)



63EW3125B REV D SH 2 OF 7

FIGURE 5-2. EVM Schematic Diagram (Sheet 2 of 7)



EPROM PROGRAMMER

FIGURE 5-2. EVM Schematic Diagram (Sheet 3 of 7)

68705R3S

I/O

J1-24 PD0/AN0
J1-23 PD1/AN1
J1-22 PD2/AN2
J1-21 PD3/AN3
J1-20 PD4/VRL
J1-19 PD5/VRH
J1-18 PD6/INT2*
J1-17 PD7

5B1 U/M
5C1 Ø9

J1-8/J9-7 TIMER

+5V
R15A 4700
R15 4700
R15C 4700
R14 1K
R10K 10K
R17 12K
R16 330
R27 10K
R7E 4700

U53A LS00
U53C LS00
U43A LS00
U43C LS00
U6B LS00
U17B LS08
U17A LS08
U17C LS08
U13C LS08
U13D LS08
U45B LS08
U45D LS08
U15D LS02
U42E LS04
U42F LS04
U16A LS04
U16B LS04
U42D LS04
U42B LS04
U39A LS04
U39B LS04
U39D LS04
U56A LS14
U56D LS14
U56E LS14
U56F LS14
U56B LS14
U56C LS14
U5ØB LS26Ø
U51A LS1Ø
U55B LS393
U55A LS393
U52B LS74A
U52A LS74A

TIMER PRESCALER

J15 (PULSED) (GATED)
J16 (705R3) (Ø5R2)
J20
J2 (705R3) (ØSR2) NC
J19 (705R3) (ØSR2) NC
J14 (705R3) (ØSR2)
J18
J17 EXT 4MHZ

C34 50 16V
CR3 1N4001
S5 MASTER RESET
S1 USER RESET
Y1 4MHZ
R13 15ØØ
R12 15ØØ

R10K 10K

U21 MC6805R2N
AN0 AN1 AN2 AN3 VRL VRH PD6/INT2 PD7
D0 IN D1 IN D2 IN D3 IN D4 IN D5 IN D6 IN D7 IN
A0/D0 A2/D1 A9/D2 A10/D3 A5/D4 A4/D5 A3/D6 A1/D7 OUT
A6 A7 A8 A11
TIMER RESET INT
NUM/Ø2 EXTAL XTAL
R/W LIR
ROMSEL RAMSEL

U32 LS244
U22 LS373

D0-D7 5G8 6E8
LO 7B1
12 A0-A11 5A1 6E8 7H8
RA6 RA7 RA8 RA11
A6 A7 A8 A11

J1-3/J9-2 INT*
4F0

POR* 5F8 6G8
Ø2 3D2 5D8 6A8 7G8
PAR* 6B8
LIR* 5E8
LIR 5D8 6B8
RW 5E8 6B8 7G8
RW* 5D8
REG 6C8
Ø2* 5G8 6H8
RST* 5H8
OSC 7G8

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FIGURE 5-2. EVM Schematic Diagram (Sheet 4 of 7)

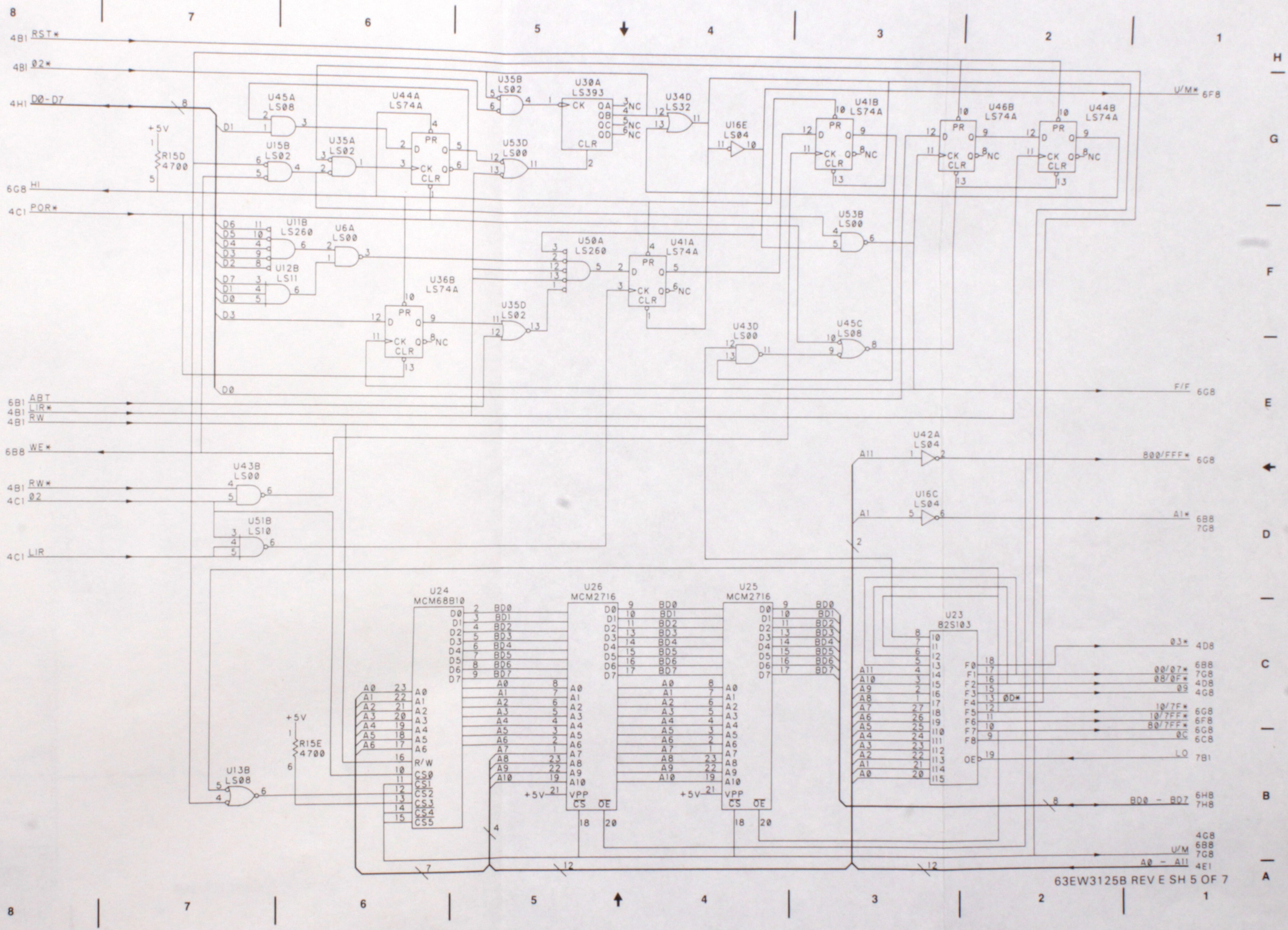


FIGURE 5-2. EVM Schematic Diagram (Sheet 5 of 7)

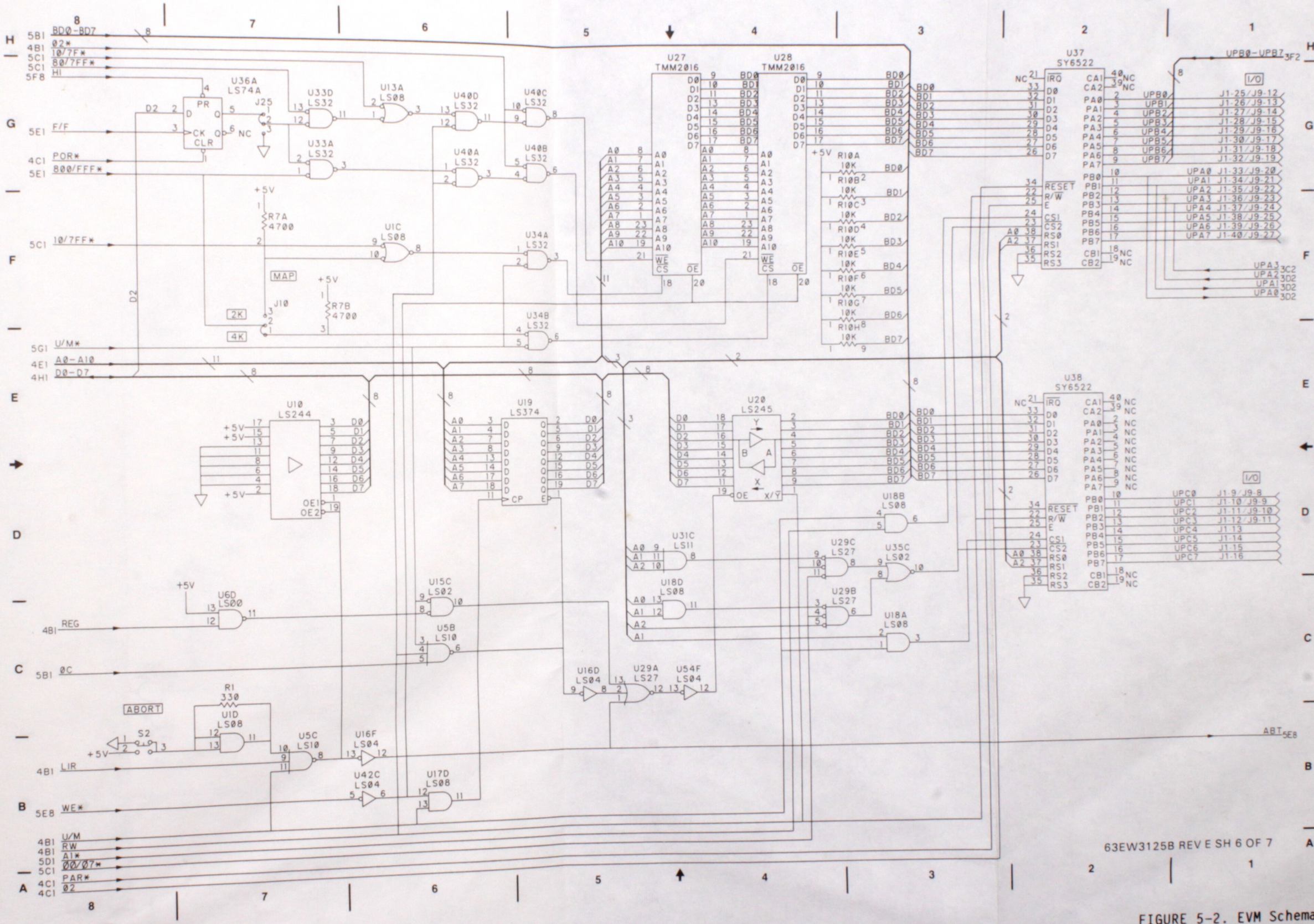
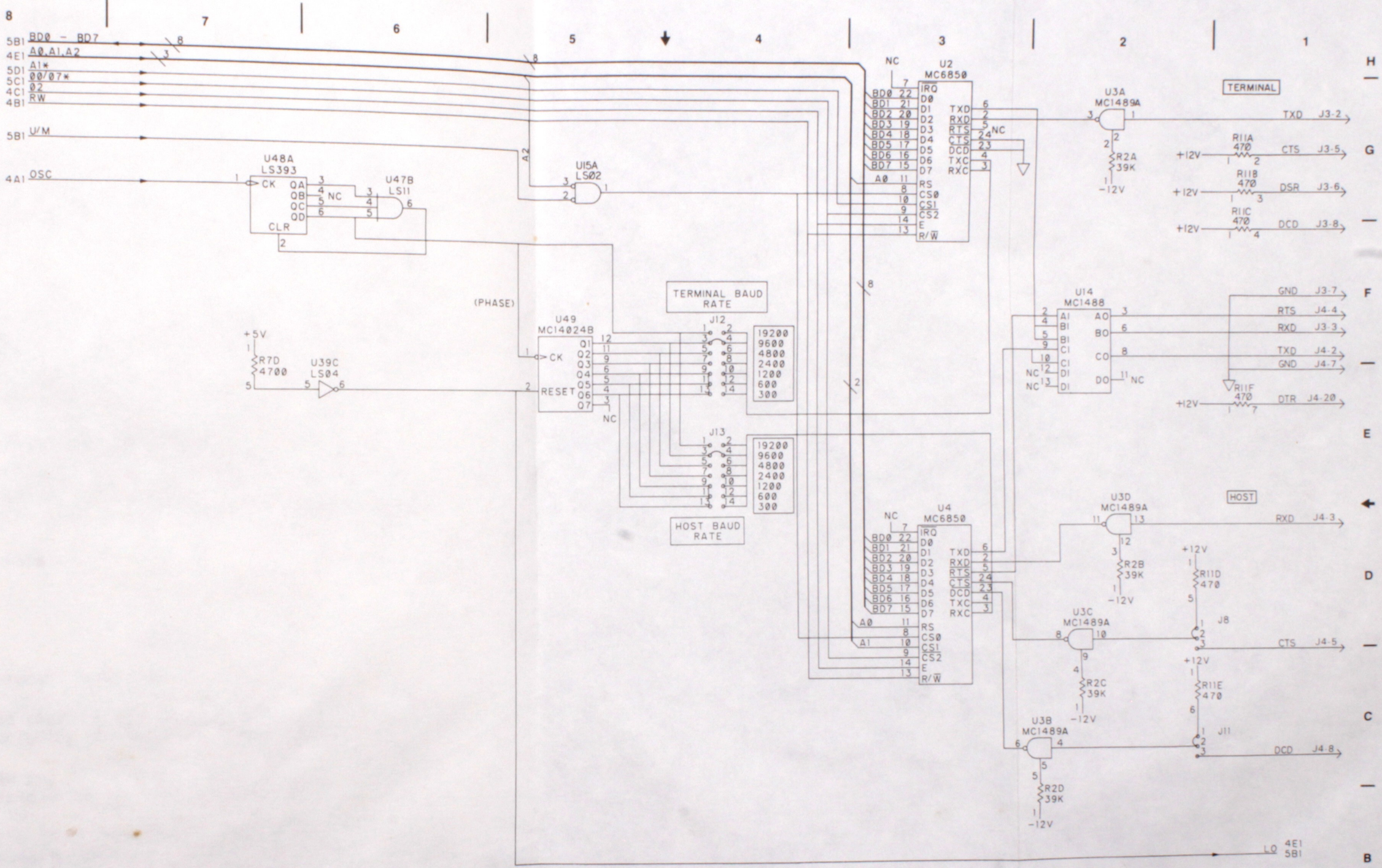


FIGURE 5-2. EVM Schematic Diagram (Sheet 6 of 7)



63EW3125B REV E SH 7 OF 7

FIGURE 5-2. EVM Schematic Diagram (Sheet 7 of 7)